Starting a Dairy in Missouri



A resource guide to help potential new dairy producers in Missouri understand the steps necessary to begin a dairy in the state

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Guide Prepared By:





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This guide was developed to help potential new dairy producers in Missouri understand the steps necessary to begin a dairy in the state. It is a step by step guide to information sources and to the regulatory agencies that will need to be contacted before construction begins in order to obtain the proper approvals and permits to eventually ship milk.

Research Dairy Markets

The first consideration in developing a new dairy in Missouri is to investigate potential markets for your milk. Dairy marketing cooperatives will market producer milk in most areas of Missouri. However, those areas of Missouri outside of existing dairy clusters may have to pay extra for hauling their milk to markets or a market may not even exist. The dairy should evaluate market conditions to seek the most profitable and secure choice for their milk marketing. Most dairy marketing cooperatives also have fieldmen who can help guide new dairy producers through the permitting and approval process. Because these coop fieldmen can facilitate the startup process, they should be brought into the planning as early as possible. If you are considering buying a property that has been a dairy farm or still is, be sure to visit with a milk inspector or dairy plant field person regarding suitability of existing milk parlor before purchasing the property. Some dairy milking parlors may require considerable remodeling before qualifying to market Grade A milk under a new permit.

Market Outlet for Missouri Dairy Farmers

Arkansas Dairy Cooperative Association Damascus, AR

- Phone: (501) 335-7204
- Coverage: SW Missouri
- Fax: (501) 335-7705
- Grade A milk

Central Equity Milk Cooperative, Inc. Mountain Grove, MO

- Phone: (417) 766-6376
- Coverage: SW Missouri
- Fax: (417) 926-5818
- Grade A, manufacturing grade, and organic milk

Dairy Farmers of America, Inc. (DFA) Kansas City, MO www.dfamilk.com

- Phone: (816) 801-6455
 - (800) 279-9122
- E-mail: webmail@dfamilk.com
- Coverage: Missouri
- Grade A milk in Missouri; and manufacturing grade milk in certain areas

Dairymen's Marketing Cooperative Mountain Grove, MO

- Phone: (417) 926-7460
- Grade A milk

Farmers All Natural Creamery Wellman, IA

www.farmersallnaturalcreamery.com

- Phone: (319) 646-2004
- Coverage: N Missouri
- Fax: (319) 646-6836
- · Organic milk

Lone Star Milk Producers Windthorst, TX

www.lonestarmilk.net

- Phone: (888) 828-7827
- Coverage: S Missouri
- Fax: (940) 378-2571
- · Grade A milk

Prairie Farms Dairy, Inc. Carlinville, IL

www.prairiefarmsdairy.com

- Phone: (217) 854-2547
- Coverage: E Missouri
- E-mail: icebox@prairiefarms.com Grade A milk

Twin County Dairy, Inc. Kalona, IA

www.twincountydairyinc.com

- Phone: (319) 656-2776
- Coverage: N Missouri
- Fax: (319) 656-2761
- · Grade A milk

Consult with University of Missouri

University of Missouri Extension has state or regional specialists located in every county in the state. Specifically, specialists that would be the most helpful to contact would be the dairy specialists, livestock specialists or agricultural business specialists.

These specialists can be used to obtain help in the following areas:

- Business planning and feasibility analysis
- Location and site evaluation
- Environmental impacts
- Other dairy production expertise
- Local infrastructure available to support a dairy business

Below is information to assist in contacting these specialists:

MU Dairy Team

http://dairy.missouri.edu/contacts.htm

MU Extension Employee Directory

http://extension.missouri.edu/directory/Places.aspx

Other resources that have been developed by the University of Missouri Extension include:

Missouri Dairy Resource Guide

http://dairy.missouri.edu/

AFO Site Evaluation Tool

http://ims.missouri.edu/afosite/

Misouri Dairy Models

http://dairy.missouri.edu/dairylinks/models.htm

Missouri Dairy Business Opportunities

http://agebb.missouri.edu/dairylink/opportunities/

Missouri Climate Center

http://climate.missouri.edu/

By-Products

http://agebb.missouri.edu/dairy/byprod/

Missouri Land Survey

http://agebb.missouri.edu/mgt/landsurv/

Contact State Inspection Agencies and Local Permitting Authorities

Missouri State Milk Board http://www.mda.mo.gov/smb/smb.htm

The 12-member board administers the state's Grade A and manufacturing grade milk sanitation programs. The board administers milk inspection relating to Grade A milk and milk supplies to assure uniformity of procedures and interpretation of milk inspection regulations. Developing an early relationship with the local milk inspector who works for the Missouri State Milk Board will help the dairy producer and the state milk board understand building plans, potential changes needed and inspection processes. Contact the Missouri State Milk Board for the phone number of milk inspector covering your area:

Gene Wiseman, Missouri State Milk Board Executive Secretary

Phone: (573) 751-3830

E-mail: Gene.Wiseman@mda.mo.gov

The Missouri State Milk Board has developed an informational guide for the construction and reconstruction of milk facilities in the state of Missouri. The Informational Guide for Construction and Reconstruction of Milking Facilities can be downloaded at http://mda.mo.gov/animals/milk/pdf/constructionguidelines.pdf.

Regulations adopted by the Missouri State Milk Board can be found on their website:

http://mda.mo.gov/animals/milk/

Missouri Department of Natural Resources http://www.dnr.mo.gov/env/wpp/cafo/

The Missouri Department of Natural Resources is in charge of protecting water quality throughout the state for animal feeding operations (AFO) and concentrated animal feeding operations (CAFO). Depending on the size and type of dairy operation, various permits may be needed to construct and operate a dairy. Generally, dairy operations with less than 700 cows do not need to obtain a construction or operating permit since they do not meet the definition of a CAFO.

Permitting of CAFOs

http://www.dnr.mo.gov/pubs/pub2351.pdf Guide to AFOs

http://www.dnr.mo.gov/pubs/pub915.pdf

Local Permitting Authorities

County or township authorities may have certain rules and requirements that may pertain to constructing a new dairy operation. Generally, the county clerk's office is good place to contact and ask about any local restrictions. University of Missouri Extension maintains a web page that has listings of all known livestock restrictions in the state, but it is still advisable to contact each county to verify this information: http://nmplanner.missouri.edu/regulations/mocountyrules/

Submit Plans to Inspection Agencies and Local Authorities for Review

Missouri State Milk Board will need to review all plans and accept them to be granted a Grade A or manufacturing grade permit. Missouri Department of Natural Resources will need to review and accept permit applications if permits are needed for the dairy operation. If a county or township has a local ordinance or zoning restriction, plans may be needed for their review. These agencies will need sufficient time to review these materials so plan accordingly to your time line.

Sanitation Consultation from Milk Procuring Field Man and Inspection Agency

The Missouri State Milk Board has developed an informational guide for the construction and reconstruction of milk facilities in the state of Missouri. The Informational Guide for Construction and Reconstruction of Milking Facilities can be downloaded at the following web address: http://mda.mo.gov/animals/milk/pdf/constructionguidelines.pdf.

A milking time inspection is required for a Grade A permit for a new dairy or reapplication for a Grade A permit. A sample of a Grade A and manufacturing grade farm inspection report from the Missouri State Milk Board can be found on the following pages. Contact the Missouri State Milk board for contact information of the milk inspector covering your area (573-751-3830).

Missouri Grade A Inspection Report



MISSOURI STATE MILK BOARD

DAIRY FARM INSPECTION REPORT

INSPECT	ING AGENCY	
MOLECI	ING AGENCI	

NAME	POUNDS SOLD DAILY								
LOCATION		PLANT							
BAC	TERIA COUNT	PERMIT NO.							
SIR: INSPECTION OF YOUR FARM TODAY SHOWED VIOLATIONS EXISTING IN THE ITEMS CHECKED BELOW. YOU ARE FURTHER NOTIFIED THAT THIS INSPECTION SHEET SERVES AS NOTIFICATION OF THE INTENT TO SUSPEND YOUR PERMIT IF THE VIOLATIONS NOTED ARE NOT IN COMPLIANCE AT THE TIME OF THE NEXT INSPECTION. (SEE SECTIONS 3 AND 5 OF THE GRADE A PASTEURIZED MILK ORDINANCE - 1978 RECOMMENDATIONS OF THE U.S. PUBLIC HEALTH SERVICE/FOOD AND DRUG ADMINISTRATION.									
cows	MILKHOUSE OR ROOM - Continued	TRANSFER AND PROTECTION OF MILK							
Abnormal Milk:	5E. Cleaning Facilities	14. Protection from Contamination:							
Cows secreting abnormal milk milked last or in separate equipment	Two compartment wash and rinse vat of adequate size	No overcrowding							
MILKING BARN, STABLE, OR PARLOR	6. Cleanliness:	Milk and equipment properly protected(e) Sanitized milk surfaces not exposed to							
Construction: Floors, gutters, and feed troughs of concrete or equally impervious materials; in good repair (a)	Floors, walls, windows, tables, and similar non- product contact surfaces clean	contamination							
Walls and cellings smooth, painted or finished adequately; in good repair; celling dust-tight (b)	TOILET AND WATER SUPPLY	Cleaners and sanitizers properly identified (a)							
Separate stalls or pens for horses, calves, and bulls	7. Toilet:	Drug administration equipment properly handled and stored(b)							
Adequate natural and/or artificial light; well distributed	Provided: conveniently located (a) Constructed and operated according to Ordinance (b) No evidence of human wastes about premises (c) Tollet room in compliance with Ordinance (d)	Drugs properly labeled and stored (c) Drugs properly used and no avenue for direct contamination of milk (d) No illegal drugs (e)							
Clean and free of litter	8. Water Supply:	PERSONNEL							
No swine or fowl	Constructed and operated according to Ordinance (a) Complies with bacteriological standards (b)	16. Hand-washing Facilities:							
Graded to drain; no pooled water or wastes (a) Cowyard clean; cattle housing areas properly maintained (b)	No connection between safe and unsafe supplies; (no improper submerged inlets)	Proper hand-washing facilities in milk room and convenient to milking operations							
No swine	UTENSILS AND EQUIPMENT	Wash and rinse vats not used as hand-washing facilities							
MILKHOUSE OR ROOM	9. Construction:	17. Personnel Cleanliness:							
Construction and Facilities;	Smooth, impervious, nonabsorbent, safe materials:	Hands washed clean and dried before milking, or							
5A. Floors Smooth; concrete or other impervious material in	easily cleanable; seamless hooded pails (a) In good repair; accessible for inspection (b) Approved single-service articles; not reused (c) Utensils and equipment of proper design (d) Approved CIP milk pipeline system (e)	performing milkhouse functions; rewashed when contaminated							
good repair	10. Cleaning:	COOLING 18. Cooling:							
5B. Walls and Ceillings	Utensils and equipment clean (a)	Milk cooled to 45° F. or less within 2 hours after							
Approved materials and finish (a)	Sanitization: All multi-use containers and equipment subjected to approved sanitation process (see Ordinance) (a) 12. Storage:	milking except as permitted by Ordinance							
5C. Lighting and Ventilation	All multi-purpose containers and equipment properly	27 - 39 24 - 24 - 24 - 24 - 24 - 24 - 24 - 24 -							
Adequate natural and/or artificial light; properly distributed (a). Adequate ventilation (b). Doors and windows closed during dusty weather (c).	stored (a) Stored to assure complete drainage, where applicable (b)	PEST CONTROL 19. Insect and Rodent Control: Fly breeding minimized by approved manure disposal							
Vents and lighting fixtures properly installed (d)	Single-service articles properly stored (c) MILKING	methods (see Ordinance)							
5D. Miscellaneous Requirements	13. Flanks, Udders, and Teats:	otherwise protected; doors tight and self-closing; screen doors open outward							
Used for milkhouse operations only; sufficient size (a) No direct opening into living quarters or barn, except as permitted by Ordinance (b) Liquid wastes properly disposed of (c) Proper hoseport where required (d) Acceptable surface under hoseport (e) Suitable shelter for transport truck as required by this Ordinance (f)	Milking done in barn, stable, or parlor	Milkhouse free of insects and rodents (d) Approved pesticides; used properly (e) Equipment and utensils not exposed to pesticide contamination (f) Surroundings neat and clean; free of harborages and breeding areas (g) Feed storage not attraction for birds, rodents or insects (h)							
REMARKS									
	A part of the state of the stat								
DATE	SANITARIAN								

STATE OF MISSOURI STATE MILK BOARD PO BOX 630 1616 MISSOURI BLVD. JEFFERSON CITY, MO 65102 PHONE: 573-751-3830

HONE	. 370-731-3030							
FARM	INSPECTION							
DEDODT								

PRODUCER		DATE	PRODUCER N	ODUCER NUMBER		
ADDRESS		CITY				
COUNTY	STATE	ZIP CODE	TIME	□ A.I		
DAILY PRODUCTION	FREQUENCY OF PICKUP	NAME OF BECEIVING	PLANT	□ P.N		

NEPUNI					LBS.									
An approved farm requires than 85% of the total maxim is available concerning it.														
FACILITIES		-												
IAGILITIEG		HECK O						ONE		MAXIMUM POSSIBLE SCORE				
	SATIS FACTO	1	NSATIS- ACTORY			SATIS FACTOR		UNSAT		DOMES DEDUCTED				
1. Health of Herd				2.	Water Supply				- Annual Property of the Personal Property of	POINTS DEDUCTED				
a. Appears Healthy					a. Safe, clean					NUMERICAL SCORE				
b. Follows USDA animal health program				3.	Sewage Disposal					PERCENTAGE SCORE				%
METHODS														
	MAX SCORE	SCOR	POINTS			MAX SCORE	sco		NTS FF			MAX CORE	SCORE	POINTS OFF
Milkhouse/Milkroom a. Location and size	1			PROPERTY OF THE PROPERTY OF TH	e. Sanitized before use	5				d. Floors & gutters, clean, good repair		4		
b. Lighting and ventilation	2				Cleaning supplies and brushes available and properly stored	2			All the second s	e. Walls & ceilings, clean, good repair		4		
c. Construction (1) floors	3			6.	Bulk Milk a. Tank construction	2			***************************************	f. Pens & alleyways clean		3		
(2) walls and ceilings	3				b. Clean and good condition	5				8. Premises well kept		2		
(3) doors, screens and partitions	3				c. Milk cooled promptly &				- Inches	Yard or Lofting Areaa. Clean and drained		3		
d. Facilities (water, wash vats, racks)	2	-			properly held (temp. F°)	5			A CONTRACTOR	 b. Manure properly handled 8 stored 		3		
e. Usage for milk handling and utensil care only	2				d. Properly located	2				10. Milking Procedures a. "Abnormal Milk Program"		4		
f. Cleanliness and flies	4				e. Outside slab and hoseport	1			***************************************	procedures followed	_	_		
g. Single service items properly stored	1			C	OR an Milk				200000000000000000000000000000000000000	b. Cows clean	_	2		
h. Pesticides, antibiotics and insecticides properly stored	5				Cooler clean, good operating order	3				c. Udders & teats washed & wiped before milking		3		
5. Utensils and Equipment a. Milking machines (head					b. Cans clean, good condition	5			odecarita constituto	 d. Milker's clothing clean & dr no cuts or sores 	у,	2		
claw, pulsator, inflations, tubes, air hoses, etc.) - good condition, clean,	6				c. Milk cooled promptly & properly held (temp.	5			O A STATE OF THE S	e. Milk stools and surcingles clean, properly stored		1		
properly stored b. Pails, strainers and other				-	d. Properly located	2				f. No dusty operations during milking	'	1		
utensils - good condition, clean, properly stored	4			7.	Barn or Milking Area a. Size and arrangement	1				g. Feed bin kept clean, free	+	1		
c. Milk lines	5			A CONTRACTOR OF THE PARTY OF TH	 Fowl, swine & other animals properly confined 	1				from foul odors	-			
d. Vacuum lines	1			na supodanou aybox	c. Lighting and ventilation	1						100		
REMARKS: EXPLAIN WHY POINTS	S DEDUC	TED.])ATE W	ELL S	AMPLEC)
											VEXT S	AMPLI	NG DUE	
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										L				
On the basis of this inspection	on, the	farm	is [I	New 🗌 Certified 🔲	Not Cer	tifie	ed		Degrade				
SIGNATURE						DATE								
MO 350-0193 (8-05)														

Missouri Manufacturing Grade Inspection Report